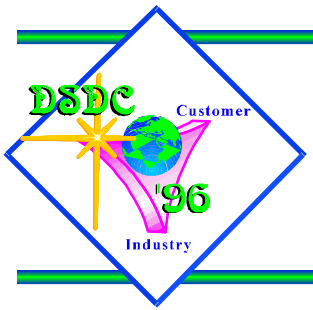


HIGHWAY 498:

The Road to Successful Software Development Projects

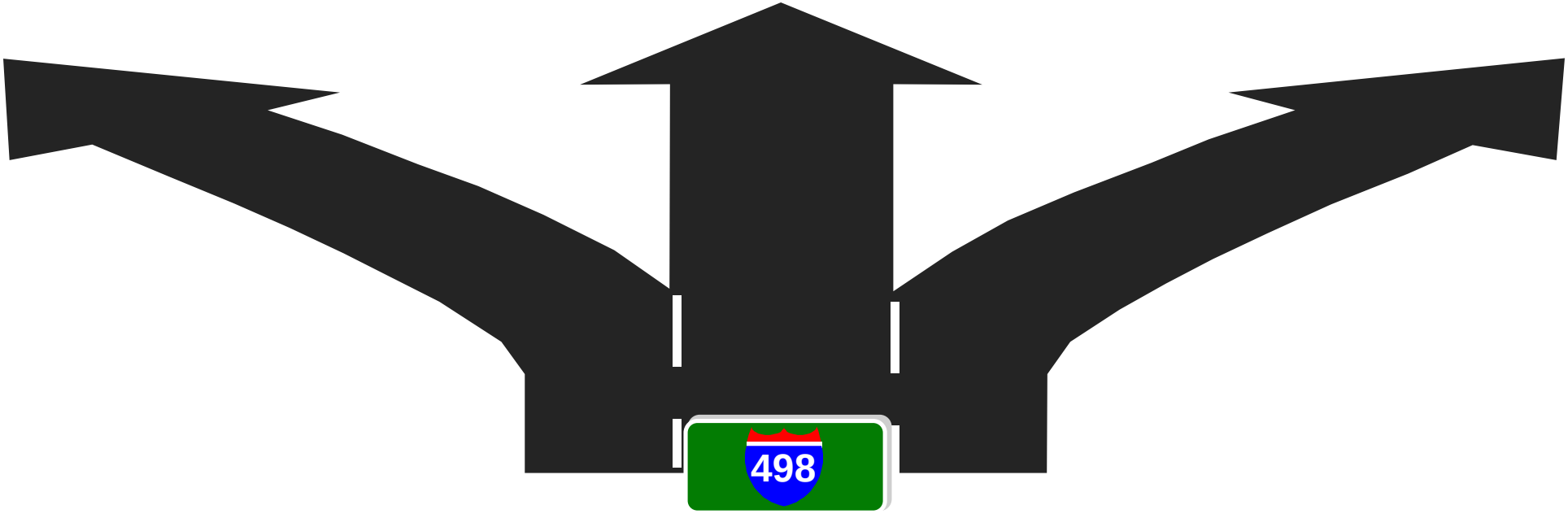
Presented By: Judy Lantinga
DSDC-DS
(616) 961-4724

Smooth Path for Software Effectiveness

Highway 498--The New Route

MIL-STD 498

ISO/IEEE 1498

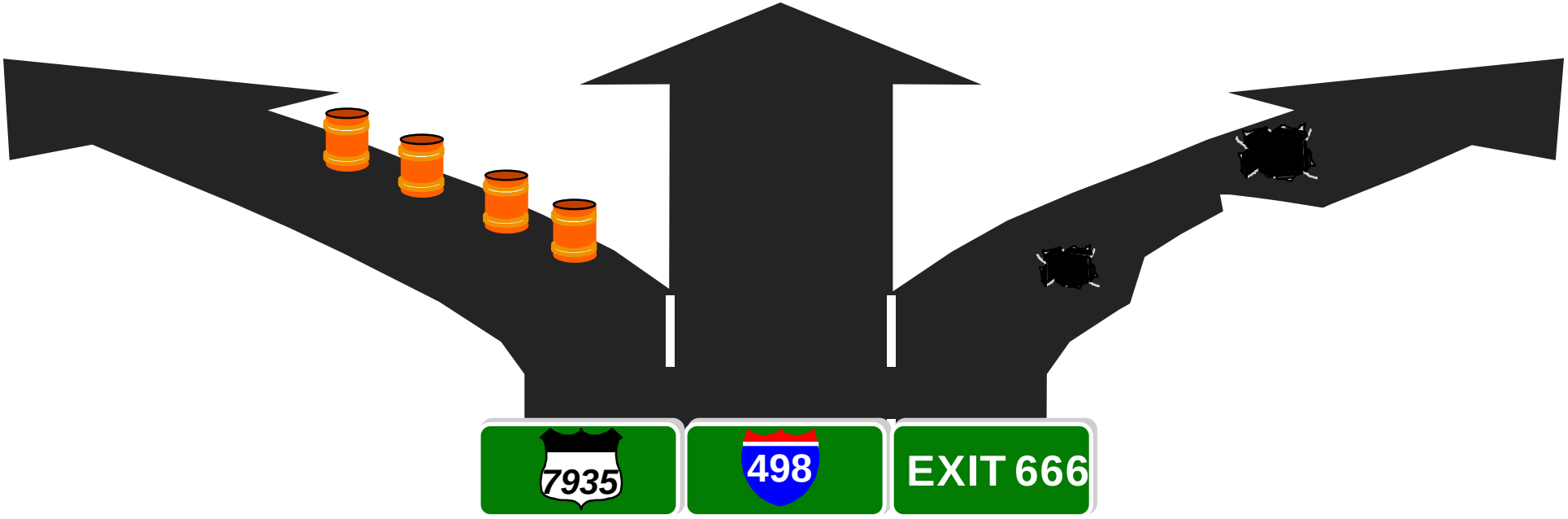


Why Should We Take Highway 498?

ONE WAY *Will get you there more efficiently (IEEE & CMM)*

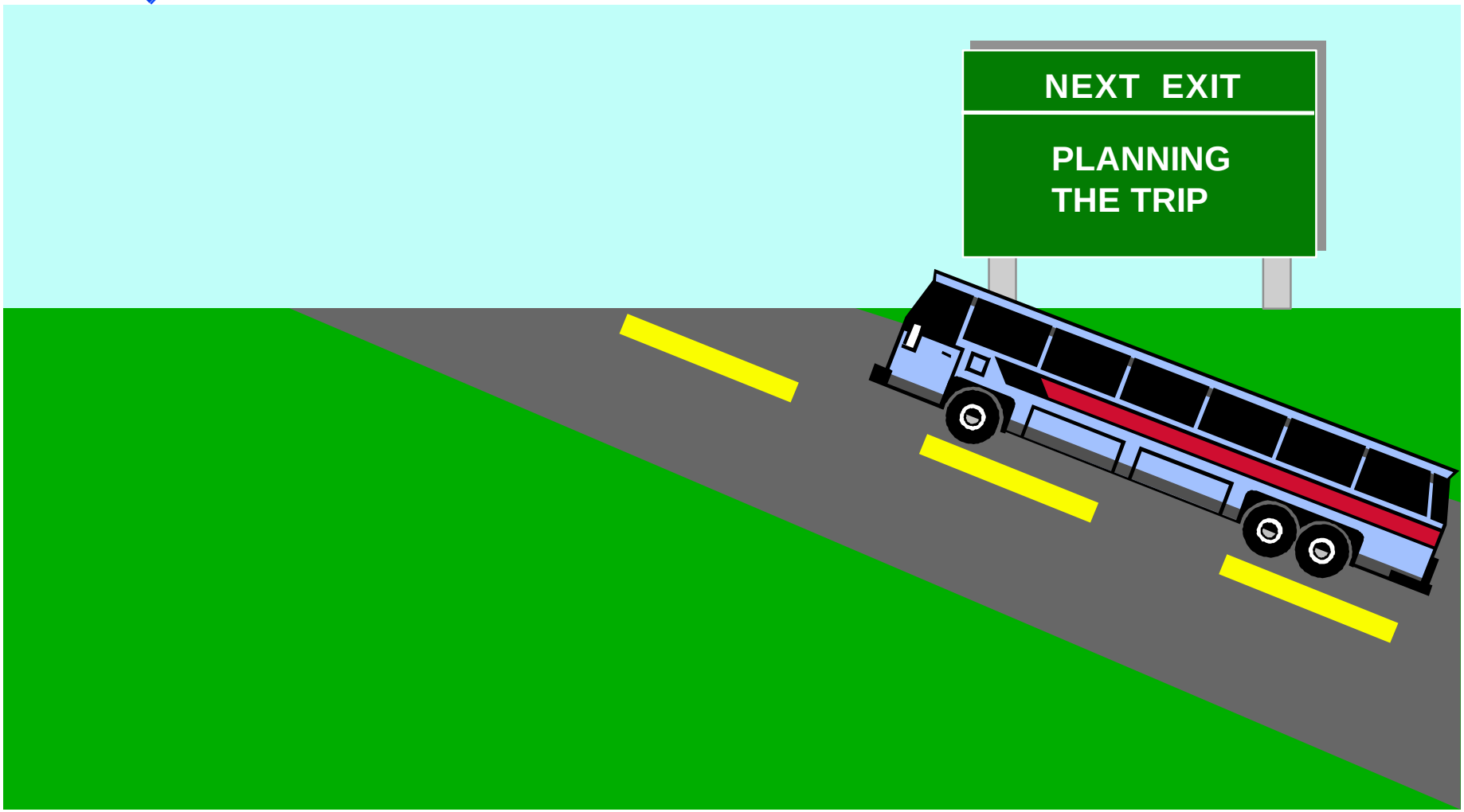
ONE WAY *Has many Information Centers (DIDs)*

ONE WAY *It takes you anywhere you want to go (Tailorable)*



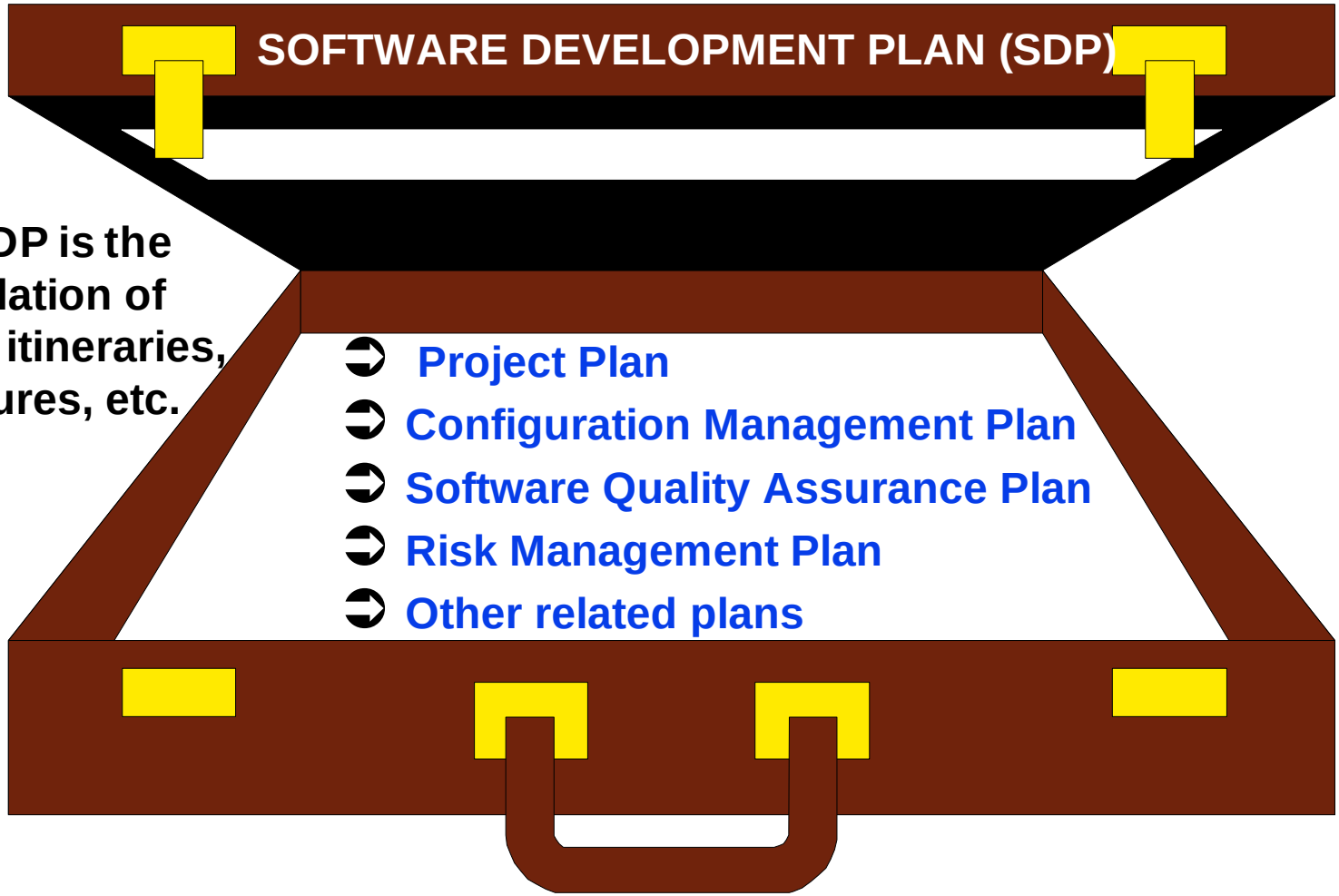
Deciding Where to Go and How to Get There

Smooth Path for Software Effectiveness



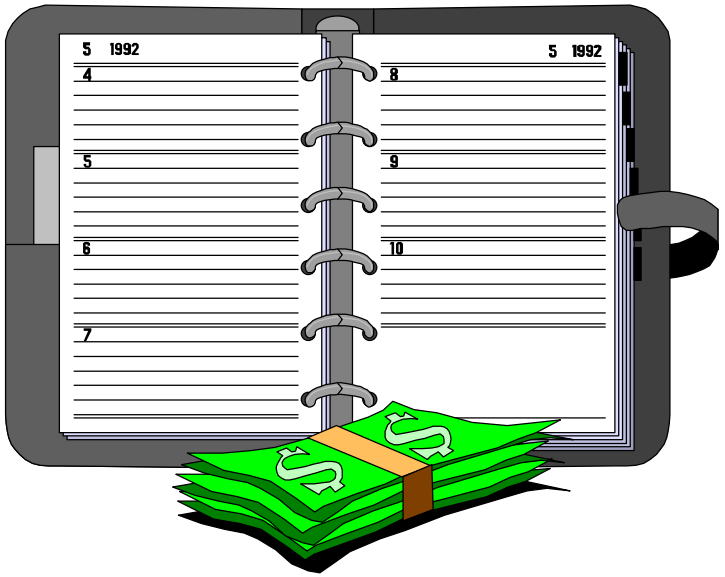
Planning the Trip

The SDP is the compilation of maps, itineraries, brochures, etc.



Planning the Trip

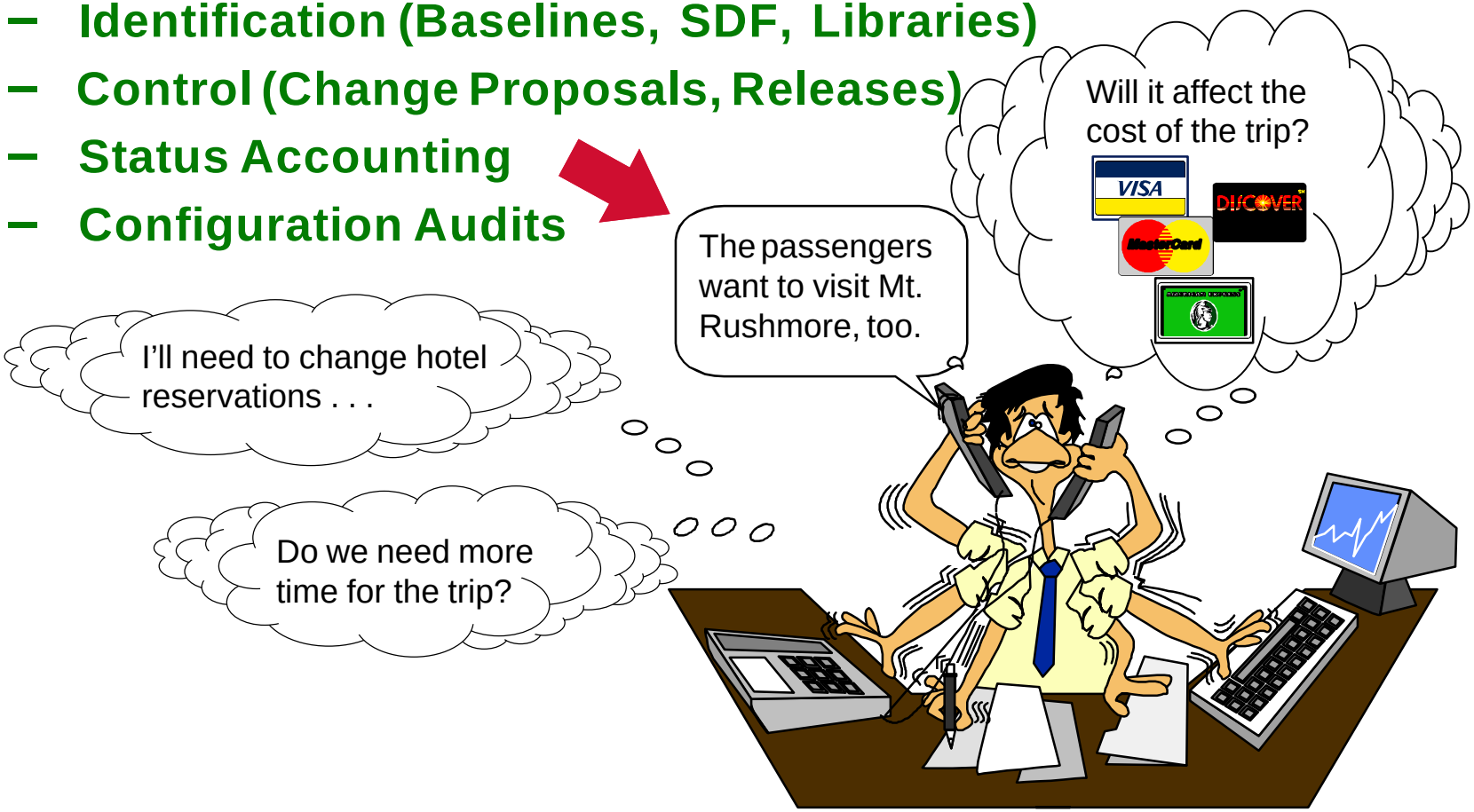
- **Project Plan**
  - Tasks
  - Schedule
  - Resources
  - Cost



Itinerary & Money

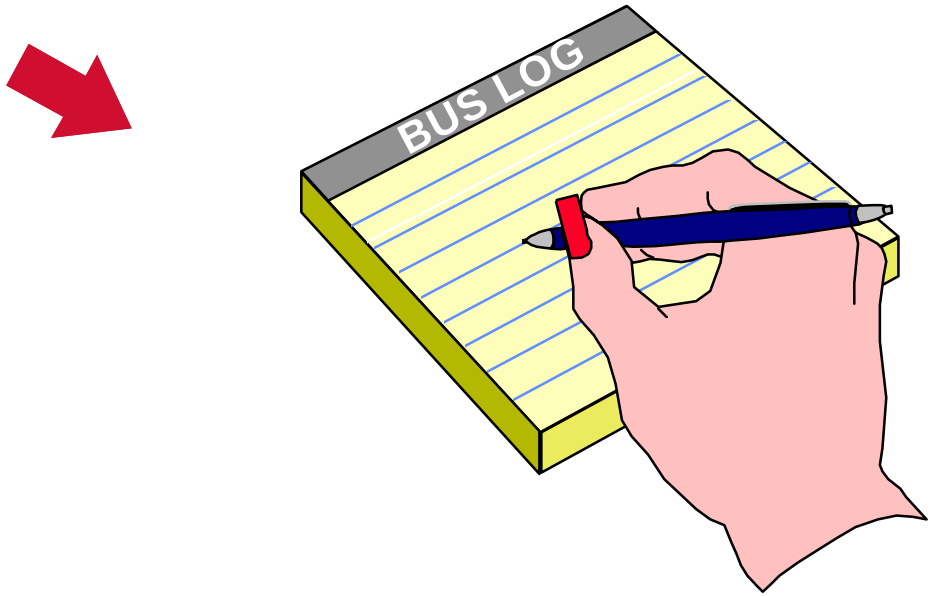
Planning the Trip

- **Configuration Management Plan**
  - **Identification (Baselines, SDF, Libraries)**
  - **Control (Change Proposals, Releases)**
  - **Status Accounting**
  - **Configuration Audits**



Planning the Trip

- **Software Quality Assurance Plan**
  - Identifies the processes and standards to be used
  - Provides visibility into process being used
  - Reviews and audits verify process was used

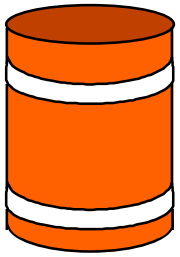


Planning the Trip

- **Risk Management Plan**
  - **Documents risks**
  - **Defines mitigating strategies and tasks**

Define ways to avoid potential problems

Reduce possibility of accidents



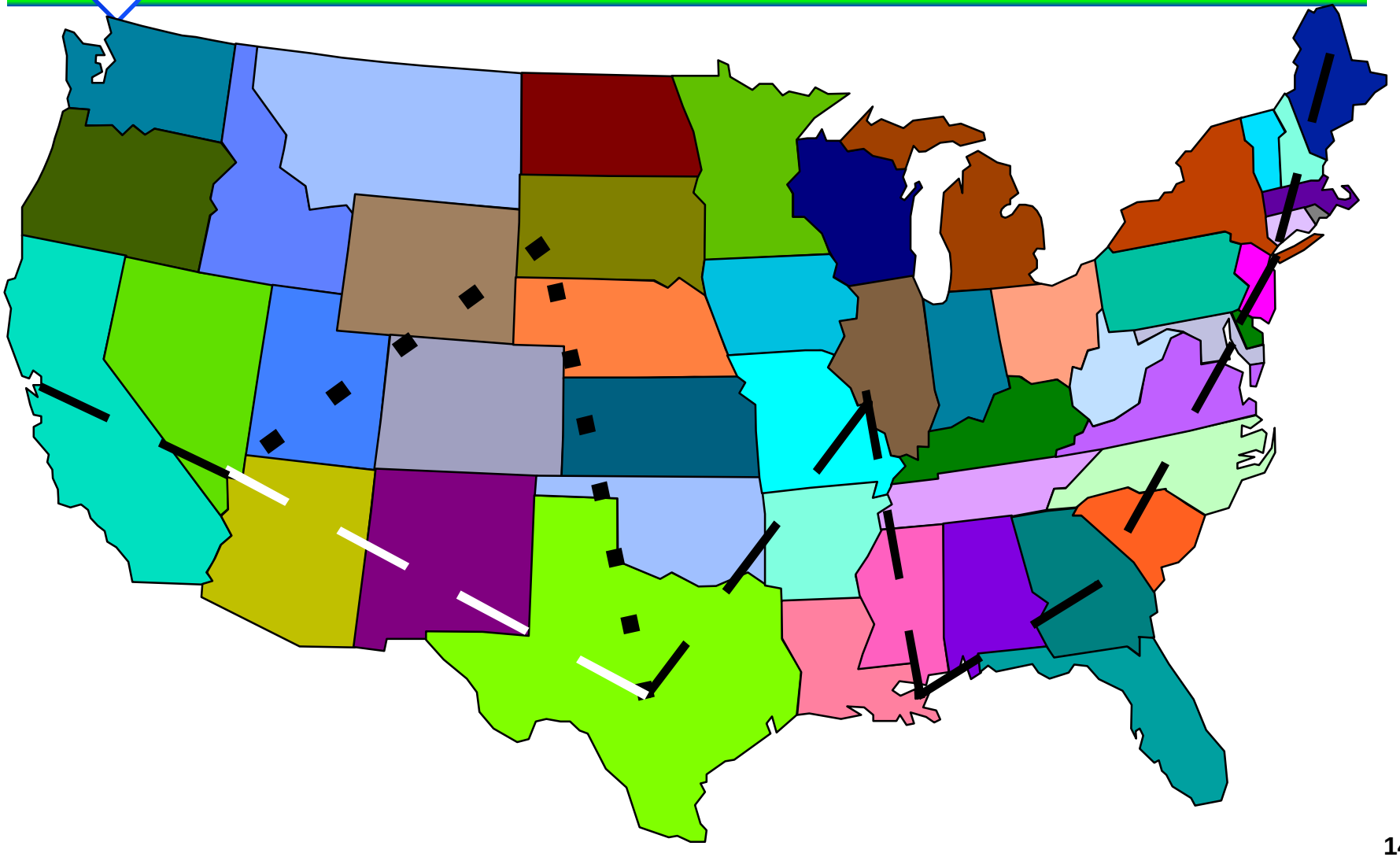
Avoid delays

Smooth Path for Software Effectiveness

Staying the Course Through the Hills and Curves

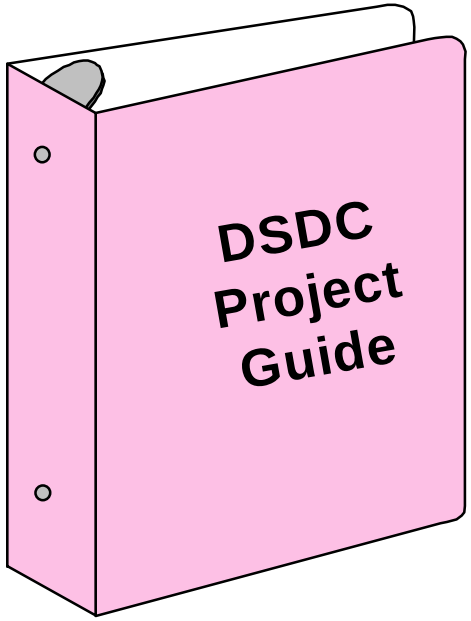
- Tailoring for variations in scope
  - Choice of life cycles
  - Choice of DIDs and their data
- Automation easier
- Duplication of documentation avoided

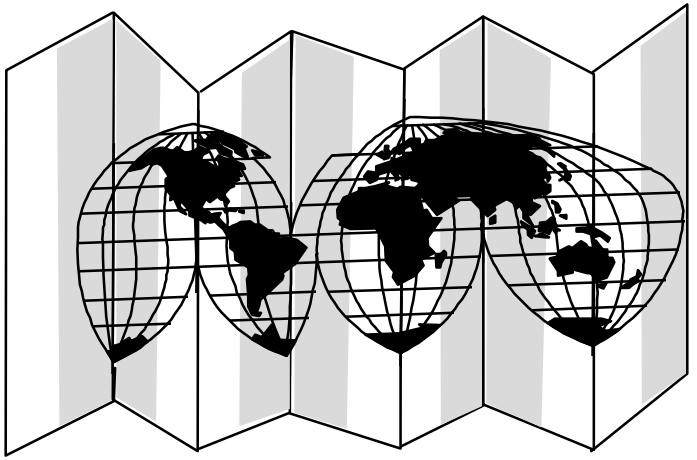
Following the Process Map



Following the Process Map

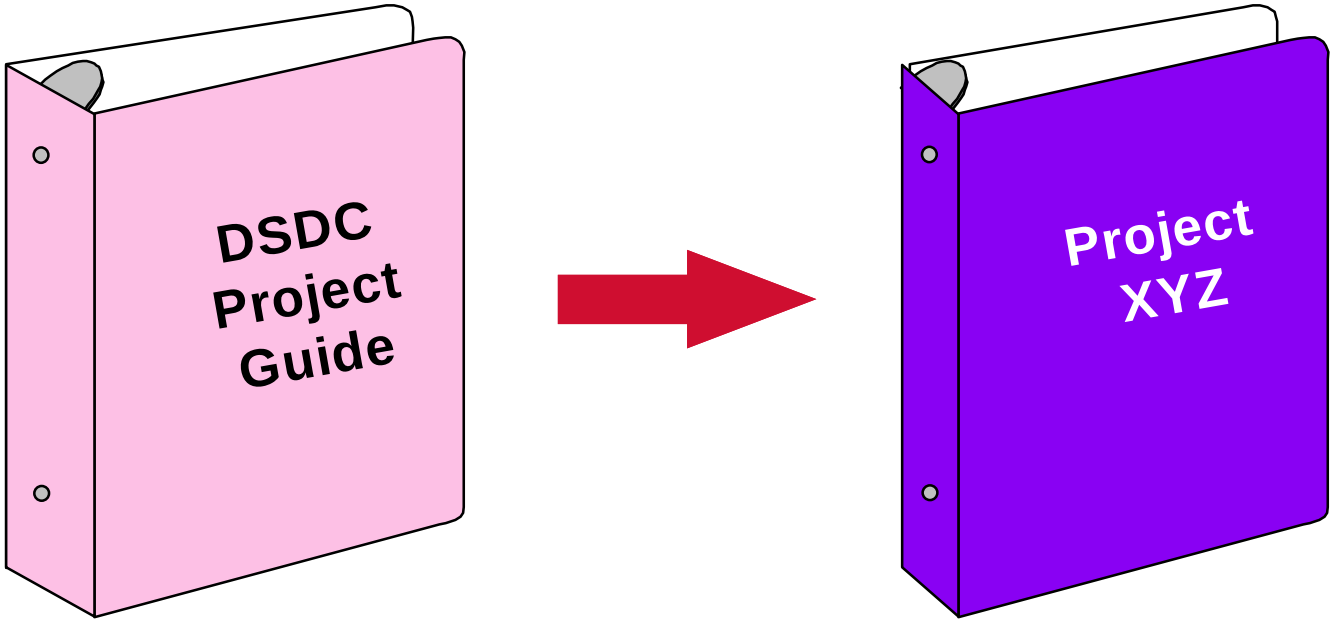
- DSDC Project Guide for Reaching CMM Level 2
  - Project Management
  - Configuration Management
  - Software Quality Assurance





Following the Process Map

- Define Phases and Major Steps (Life Cycles, Steps Within Life Cycle)
- Document High Level Requirements (OCD, System & Interface Specs)
- Document System-wide Decisions (H/W, S/W, Speed, Batch, etc.)

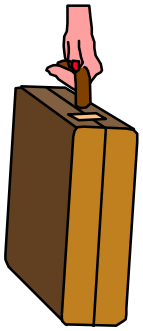


Smooth Path for Software Effectiveness

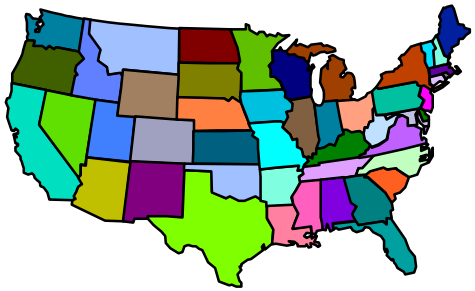
Reaching Our Destination: Software Effectiveness

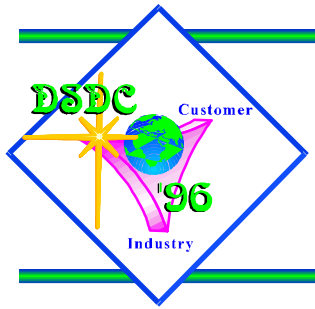
- Requirements

- Plans



- Process





HIGHWAY 498:
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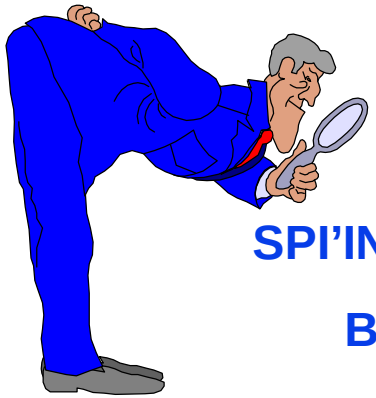
You can also contact us through our Customer Service Line at 1-800-692-1944 or visit our home page at http://www.dsdc.dla.mil/

Software Process Improvement (SPI)

We hope you'll attend all of our SPI presentations at DSDC '96:



SPI'ING IS DSDC'S BUSINESS

HIGHWAY 498:
The Road to Successful Software Development Projects

DSDC'S RACE TO LEVEL 3